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ING. [1962] [11]p. 7 refs.
Order from OTS or SIA \$1.60

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DESCRIPTORS: *Arc welding, Metals, Shielding,
Gases, Porosity.

The interaction of the gases with the metal is most
intense when the welding is carried out with consumable
electrodes at high current densities. The principal de-
fect in welding steel by this method is the presence of
porosity in the weld metal which is caused by the tem-
perature-dependent change in the solubility in the metal
of the active diatomic gases (H₂, N₂, and O₂) and by
their reactions in the weld puddle with constituents in
the metal (C, S) and with each other. Shielding at atmos-
(Metallurgy, EE, v. 9, no. 9)

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Office of Technical Services

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SLA 5-11-55

(loan)

Sgt. - Sgt.

Feb 60

107686

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